

FRAMEWORK FOR IDENTIFYING COMPREHENSIVE PLAN DATA

HISTORIC CONTEXT:

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA

Geographic Organization: Piedmont/Western shore

Chronological/Development Period(s):

Modern Period (1945-present)

Prehistoric/Historic Period Theme(s):

Military (World War II/Post World War II Era)
Engineering/Invention

Resource Type:

Category: Buildings

Historic Environment (urban, suburban, village, or rural): suburban

Historic Function(s) and Use(s): Laboratories for testing and development of
military (Navy) weapons systems.

Known Design Source:

Eggers & Higgins, Architects, New York, New York
Taylor & Fisher, Baltimore, Associates

Maryland Historical Trust
State Historic Sites Inventory Form

Survey No. M:33-20
Magi No.
DOE ☐ Yes ☐ No

1. Name (indicate preferred name)

historic White Oak Laboratory—Technical Shop

and/or common Building 71

2. Location

street & number 10901 New Hampshire Avenue ☐ not for publication

city, town Silver Spring ☐ vicinity of congressional district 4th

state Maryland county Montgomery

3. Classification

Category	Ownership	Status	Present Use	
<input type="checkbox"/> district	<input checked="" type="checkbox"/> public	<input checked="" type="checkbox"/> occupied	<input type="checkbox"/> agriculture	<input type="checkbox"/> museum
<input checked="" type="checkbox"/> building(s)	<input type="checkbox"/> private	<input type="checkbox"/> unoccupied	<input type="checkbox"/> commercial	<input type="checkbox"/> park
<input type="checkbox"/> structure	<input type="checkbox"/> both	<input type="checkbox"/> work in progress	<input type="checkbox"/> educational	<input type="checkbox"/> private residence
<input type="checkbox"/> site	Public Acquisition	Accessible	<input type="checkbox"/> entertainment	<input type="checkbox"/> religious
<input type="checkbox"/> object	<input type="checkbox"/> in process	<input checked="" type="checkbox"/> yes: restricted	<input type="checkbox"/> government	<input type="checkbox"/> scientific
	<input type="checkbox"/> being considered	<input type="checkbox"/> yes: unrestricted	<input type="checkbox"/> industrial	<input type="checkbox"/> transportation
	<input type="checkbox"/> not applicable	<input type="checkbox"/> no	<input checked="" type="checkbox"/> military	<input type="checkbox"/> other:

4. Owner of Property (give names and mailing addresses of all owners)

name U.S. Navy - White Oak Laboratory

street & number 10901 New Hampshire Ave. telephone no.

city, town Silver Spring state and zip code MD 20903-5000

5. Location of Legal Description

courthouse, registry of deeds, etc. liber

street & number folio

city, town state:

6. Representation in Existing Historical Surveys

title

date ☐ federal ☐ state ☐ county ☐ local

depository for survey records

city, town state:

7. Description

Survey No. M:33-20

Condition		Check one	Check one	
<input type="checkbox"/> excellent	<input type="checkbox"/> deteriorated	<input type="checkbox"/> unaltered	<input checked="" type="checkbox"/> original site	date of move <input type="checkbox"/>
<input checked="" type="checkbox"/> good	<input type="checkbox"/> ruins	<input checked="" type="checkbox"/> altered	<input type="checkbox"/> moved	
<input type="checkbox"/> fair	<input type="checkbox"/> unexposed			

Prepare both a summary paragraph and a general description of the resource and its various elements as it exists today.

Building 71 is a large open interior storage/machine shop constructed in 1946. It is generally similar in construction to other storage/machine shops at the White Oak Laboratory including Building 70 (M:33-19) located across an access road to the east. The original Building 71 was approximately 200-feet long by 108-feet wide. It is one story high although the interior height is over 20 feet with the central section elevated another one half story. As with some of the other buildings at White Oak, the walls of the elevated roof section are glass and function as skylights. Large roll-up doors at the north and south ends of the structure provide vehicle entry to the double height interiors. A group of offices/small laboratories occupy the northeast, northwest, and southeast interior corners of the building. The majority of the interior is open.

The structure is brick with a flat roof surrounded by a parapet. The brick walls are laid in American bond with five stretcher rows per header row.

During the late 1960s, approximately 1,880 square feet of office space was appended to the outside southeast corner of the building. In 1987, approximately 10,000 square feet of open shop space was added to the western side of the building. The original western exterior brick wall of Building 71 became the inside dividing wall between the two areas. This wall was left largely intact although the windows were bricked over, and doors and frames were removed to provide passage between the new and the original work spaces.

Although similar in general appearance to the original structure, these additions introduced substantial variation. The single story eastern addition is only approximately one half the height of the original structure. The windows are individually larger but have only two fixed vertical lights. They do not reflect the size or design evident in the pattern of the upper and lower paired windows found in the original buildings throughout the Front Area. The brick of this addition is common bond with stretchers which do not match the original brick in color. The coping atop the walls is dark brown metal with matching downspouts.

The brick and coping of the larger western addition match the original more closely, but there are still some differences in the color and the walls, which in the new section are brick veneer over concrete block and are approximately 2 feet higher. Although some effort was made to minimize the visual variation between the original and new sections of this building, the differences remain apparent.

8. Significance

Survey No. M:33-20

Period	Areas of Significance—Check and justify below			
<input type="checkbox"/> prehistoric	<input type="checkbox"/> archaeology-prehistoric	<input type="checkbox"/> community planning	<input type="checkbox"/> landscape architecture	<input type="checkbox"/> religion
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> archaeology-historic	<input type="checkbox"/> conservation	<input type="checkbox"/> law	<input type="checkbox"/> science
<input type="checkbox"/> 500-1599	<input type="checkbox"/> agriculture	<input type="checkbox"/> economics	<input type="checkbox"/> literature	<input type="checkbox"/> sculpture
<input type="checkbox"/> 1600-1699	<input type="checkbox"/> architecture	<input type="checkbox"/> education	<input checked="" type="checkbox"/> military	<input type="checkbox"/> social/ humanitarian
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> art	<input type="checkbox"/> engineering	<input type="checkbox"/> music	<input type="checkbox"/> theater
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> commerce	<input type="checkbox"/> exploration/settlement	<input type="checkbox"/> philosophy	<input type="checkbox"/> transportation
<input checked="" type="checkbox"/> 1900-	<input type="checkbox"/> communications	<input type="checkbox"/> industry	<input type="checkbox"/> politics/government	<input type="checkbox"/> other (specify)
		<input type="checkbox"/> invention		

Specific dates	1945-1949	Builder/Architect	U.S. Navy/Eggers & Higgins, N.Y.
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check: Applicable Criteria: ☐ A ☐ B ☐ C ☐ D
 and/or
 Applicable Exception: ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G
 Level of Significance: ☐ national ☐ state ☐ local ☐ None

Prepare both a summary paragraph of significance and a general statement of history and support.

Statement of Significance

Discussions of the potential NRHP eligibility of Building 71 which is one of the eight World War II era structures that comprise the Front Area at the White Oak Laboratory are influenced by three factors:

- The apparent absence of unique and significant events/developments or persons associated primarily with Naval activities at White Oak;
- The absence of unique architectural styles or architecture that embodies the best characteristics of a style or period; and,
- The relatively recent age (e.g., construction of the first structure was begun in 1945) in light of the absence of overwhelming significance as noted above.

Historical background and significance:

Established when existing facilities of the Naval Ordnance Laboratory became insufficient to meet the increasing need for Research, Development, Testing, and Evaluation facilities late during World War II, White Oak was only one of a variety of such facilities established throughout the areas of Maryland and Virginia around Washington, D.C. These technical and administrative centers were developed to maximize accessibility to military headquarters in Washington while being located in areas that provided the environmental conditions necessary for the performance of their missions and the social atmosphere necessary to attract and keep skilled personnel. For White Oak, these resources included the scientific/academic community of Washington and the surrounding area of Maryland while still being somewhat removed from the city congestion and security problems presented by a more urban center. Also, electromagnetic experiments (conducted in areas east of the Front Area) required magnetically neutral conditions.

The White Oak facility that developed during the final years of World War II reflected administrative and research work that was task-specific, contributing to larger weapons system development programs that included work done at other naval facilities. White Oak remained a group of buildings housing offices, laboratories, and shops designed for the tasks at hand. Upon completion of a set of activities, the facilities were refitted for the next set of required tasks. As a result, the facilities in the Front Area of White Oak were continuously changing with new sets of equipment installed for as long as necessary, before they were replaced or moved to a new area of White Oak or to another naval facility.

8. Significance (Cont.)

Survey No. M:33-20

The result of this role for White Oak was that, while it was an integral part of the Naval research and development program during World War II, there are no obvious manifestations of that role in the buildings or the setting of the Front Area of White Oak as they exist today, the generally high degree of integrity of location, setting and design notwithstanding.

Building 71, as well as all of the structures of the Front Area of White Oak, whether viewed individually or as a potential district, do not exhibit the integrity of association with events that have made a significant contribution to the broad pattern of history (i.e., NRHP Criteria a, 36 CFR 60.4).

The Naval Ordnance Laboratory, while housed at White Oak, included Naval and civilian personnel who may have achieved considerable personal or professional renown. However, such individual importance was not connected with their tenure at White Oak and so would not satisfy NRHP Criteria b.

Since White Oak is a product of Navy activities begun during World War II and a relatively recent entity, it is unlikely that Building 71, or any component of the environment of the Front Area has the potential to yield information important to history itself. White Oak's potential historic importance lies in the scientific developments that have occurred there. Information about these developments are likely to be contained in documentary sources such as scientific notes and archives that exist separately from the physical structures that constitute the Front Area of White Oak. In addition, detailed plans and drawings exist that document the buildings of the Front Area are archived by the Public Works Department at White Oak, further reducing the potential for NRHP eligibility under Criteria d.

Building 71 exhibits the principal design shared by the original administration/laboratory buildings of the Front Area at White Oak. The exterior facades of Building 71 has been modified but still appears largely the same as it would have shortly after their construction.

This building has maintained only some of its architectural integrity. The combination of the campus-like setting and the "starved classicism" style that is expressed is not unique in the architecture of the period, or in federal buildings in general in the region around Washington, D.C. The stylistic elements suggests the continuation of modern architectural influences on the more formal classical designs as expressed in other buildings designed during the 1920s and the 1930s.

The buildings of the Front Area do not appear to satisfy eligibility Criteria C, for inclusion in the NRHP since they are neither distinctive examples of this architectural type nor "a significant and distinguishable entity" (U.S. Department of the Interior 1991).

9. Major Bibliographical References

Survey No. M:33-20

- Anonymous, 1959, "History of the Naval Ordnance Laboratory", manuscript on file at NSWC, White Oak, Maryland.
- Craig, Lois, 1978, *The Federal Presence: Architecture, Politics, and Symbols in United States Government Buildings*, The MIT Press, Cambridge, Massachusetts.
- Dittman, Richard B., 1973, letter to Stanley S. Jones, U.S. Naval Ordnance Laboratory, White Oak, Maryland, January 29, 1973, on file at Department of Public Works, NSWC, White Oak, Maryland.
- Greenhorne & O'Mara, Inc., 1992, *Historic and Archaeological Resources Protection (HARP) Plan for Naval Surface Warfare Center, White Oak, Maryland*, on file at U.S. Navy, Engineering Field Activity-Chesapeake, Washington, Navy Yard, Washington, D.C.
- Smaldone, Joseph P., 1977, *History of the White Oak Laboratory 1945-1975*, Naval Surface Weapons Center, Silver Spring, Maryland.
- U.S. Naval Ordnance Laboratory, 1949, *The U.S. Naval Ordnance Laboratory; General and Descriptive Information*.

10. Geographical Data

Acreage of nominated property

Quadrangle name	Beltsville, MD	Quadrangle scale	7.5 Min.
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UTM References do NOT complete UTM references

A	Zone	Easting	Northing	B	Zone	Easting	Northing
C				D			
E				F			
G				H			

Verbal boundary description and justification

List all states and counties for properties overlapping state or county boundaries

state	Maryland	code	MD	county	Montgomery	code	031
state		code		county		code	

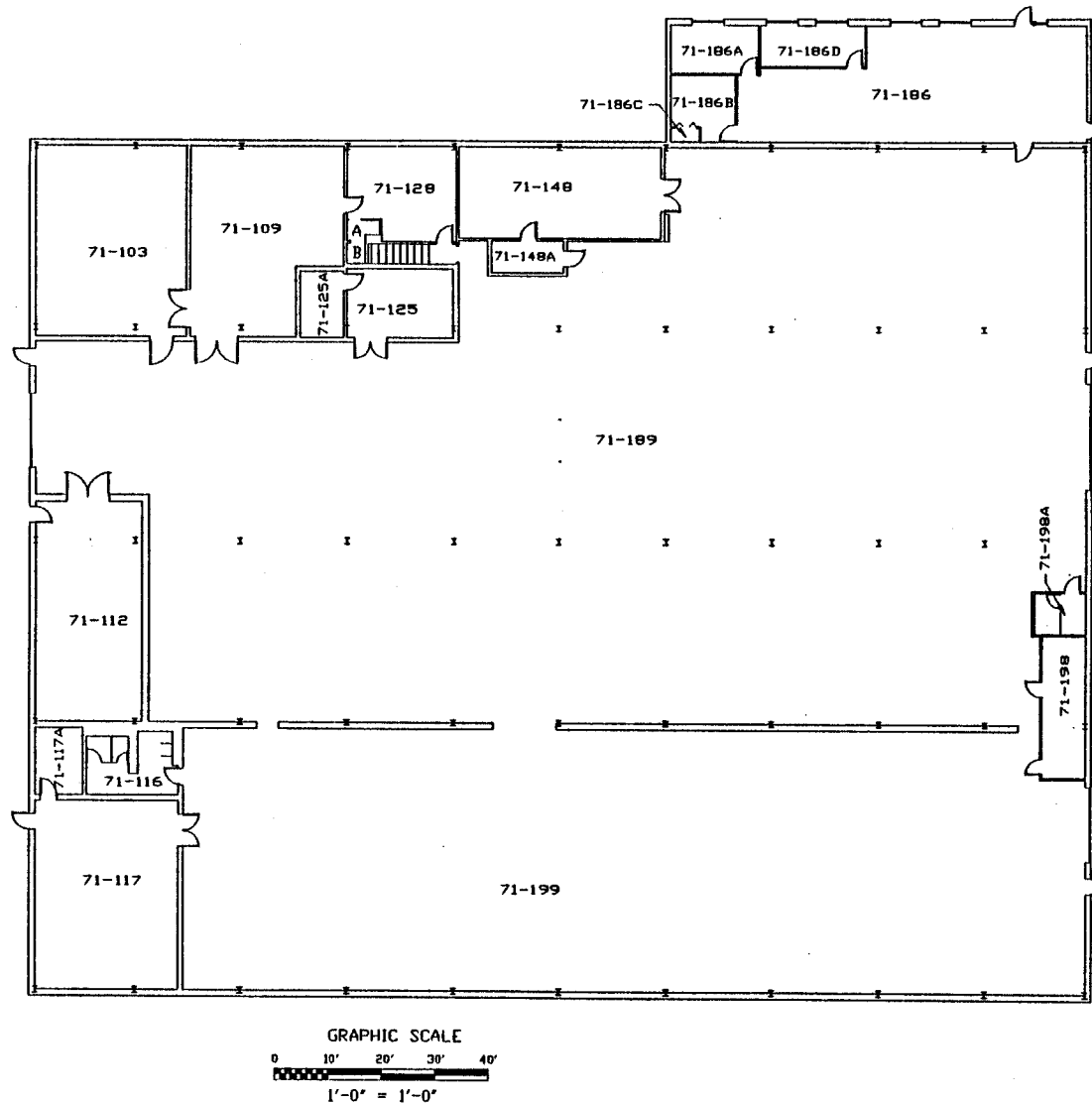
11. Form Prepared By

name/title	Mark Rosenzweig, Ph.D./Chief Archaeologist		
organization	Ecology and Environment, Inc.	date	March 25, 1994
street & number	368 Pleasantview Drive	telephone	716/684-8060
city or town	Lancaster	state	New York

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

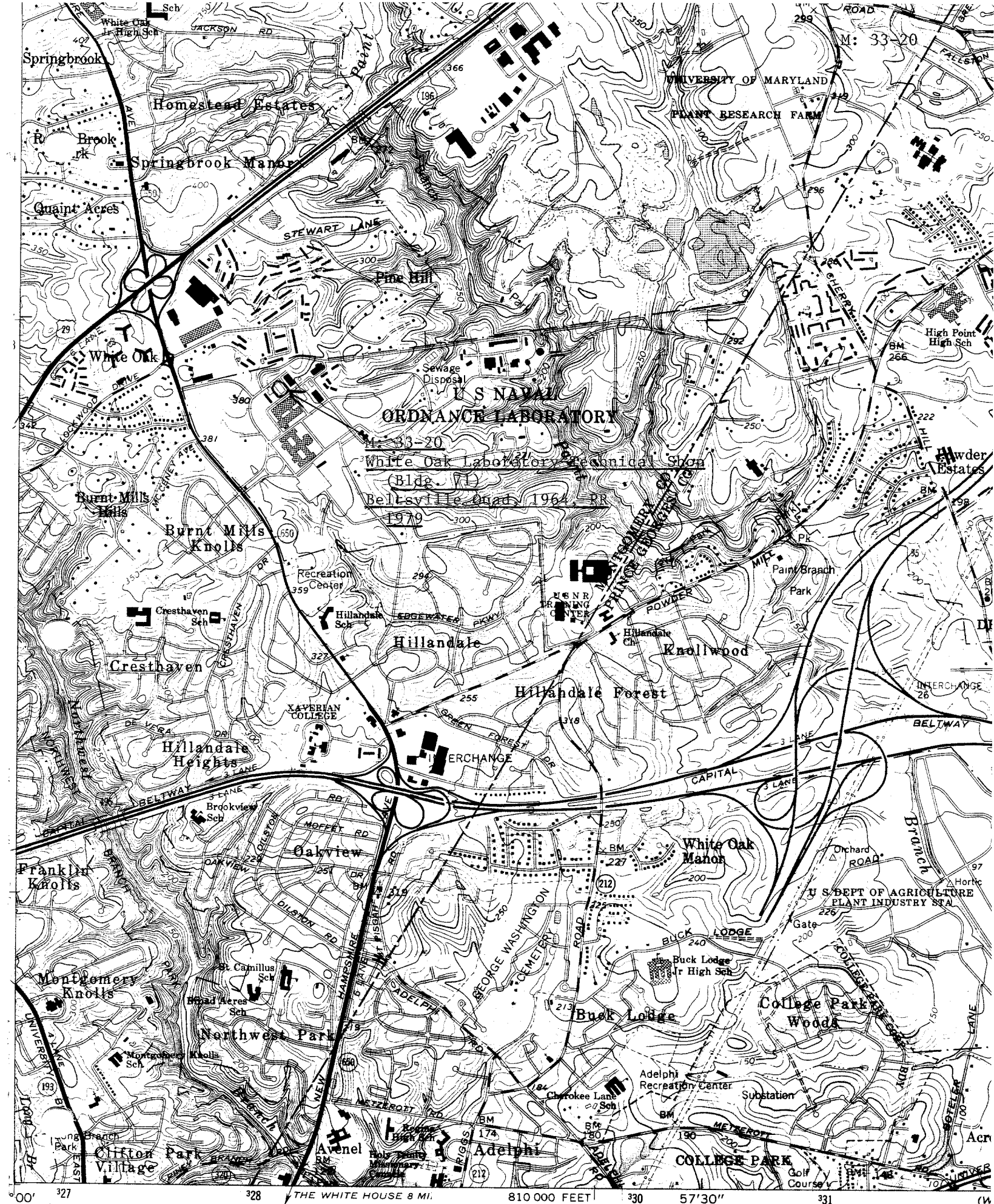
The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

return to: Maryland Historical Trust
DHCP/DHCD
100 Community Place
Crownsville, MD 21032-2023
514-7600

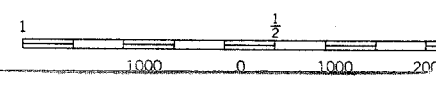


SOURCE: U. S. Navy NSWC White Oak Department of Public Works.

SURVEY NO. M:33-20, BUILDING 71
NSWC WHITE OAK, SILVER SPRING, MONTGOMERY COUNTY, MARYLAND



Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, USSCS, and WSSC





① M. 33-20
Nswc White Oak Laboratory
LAB - Tech SHOP
Building 71
Montgomery Co. MD
Ecology & Environment Inc.
Nov 1993
US NAVY EFA CHESAPEAKE
Looking NE elevation.



② M. 33-20
NSWC White Oak Laboratory
Lab-Tech Shop
Building 71
Montgomery Co. MD
Ecology and Environment Bldg.
Nov 1993
US NAVY RR A Chesapeake
Looking NW R elevation
Note: 1 story new addition.